

MDJ-1200K

Generic MDJ-1200K Digital Electronic Gold Purity Tester Machine User Manual

Model: MDJ-1200K

1. INTRODUCTION

This manual provides comprehensive instructions for the Generic MDJ-1200K Digital Electronic Gold Purity Tester Machine. This advanced device is designed for accurate, non-destructive testing of various precious metals, including gold, silver, platinum, palladium, and K gold. It precisely measures density, purity, and karat number, making it an essential tool for jewelers, pawnshops, banks, and research laboratories.

Key features include high accuracy, a clear digital display for instant readings, and a non-destructive testing method that preserves the integrity of your valuable items. The built-in rechargeable battery enhances portability, allowing for convenient use in various settings.

Easy to carry

Built-in rechargeable battery makes it more convenient to carry, and long standby time makes it more suitable for use when going out for purchases, and can also prevent the trouble caused by power outages



Automatic alarm when out of range

Pre-set tolerance limits to facilitate batch testing
Can determine whether the material is qualified or not, with a buzzer prompt



Gold Density Purity Tester

Gold Platinum Silver Perkin Gold K Gold Palladium



Gold Authenticity Detector

Non-destructive testing

High precision

Fast measurement



Gold Platinum K Gold Silver Palladium

High-quality chips, fast processing speed



Image: Overview of the Gold Authenticity Detector's key features, highlighting its portability, high precision, non-destructive testing capability, and automatic alarm function for out-of-range measurements.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device to ensure safe and proper use.

- Do not expose the device to water or other liquids, except for the designated water tank during testing.
- Operate the tester on a stable, level surface to ensure accurate measurements.
- Handle precious metal samples with care to prevent damage to both the sample and the device.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from strong electromagnetic fields.
- Ensure the power adapter (if used) is compatible with your local power supply.

3. PRODUCT COMPONENTS AND SETUP

3.1 Components

The MDJ-1200K Gold Purity Tester typically includes the following components:

- Main Testing Unit with Digital Display
- Large Water Tank
- Measuring Platform (for air weight)
- Stainless Steel Hanging Basket (for water weight)
- Power Adapter (for charging)
- User Manual

Large water tank design

Reduces the error caused by the buoyancy of the railing line



Stainless steel hanging wire, not easy to bend or deform

Image: The MDJ-1200K unit showing its large water tank design, measuring platform, and the front level instrument for ensuring proper setup.

3.2 Initial Setup

1. **Unpack:** Carefully remove all components from the packaging.
2. **Placement:** Place the main testing unit on a firm, level, and vibration-free surface. Use the front level instrument (bubble level) on the device to ensure it is perfectly horizontal.
3. **Power On/Charge:** Connect the power adapter to charge the built-in rechargeable battery. The device can be operated while charging.
4. **Assemble Water Tank:** Place the large water tank onto the designated area of the main unit. Ensure it is securely seated.

5. **Fill Water Tank:** Fill the water tank with distilled water up to the indicated level. Ensure no air bubbles are present around the hanging basket.

4. OPERATING INSTRUCTIONS

Follow these steps for accurate gold purity testing:

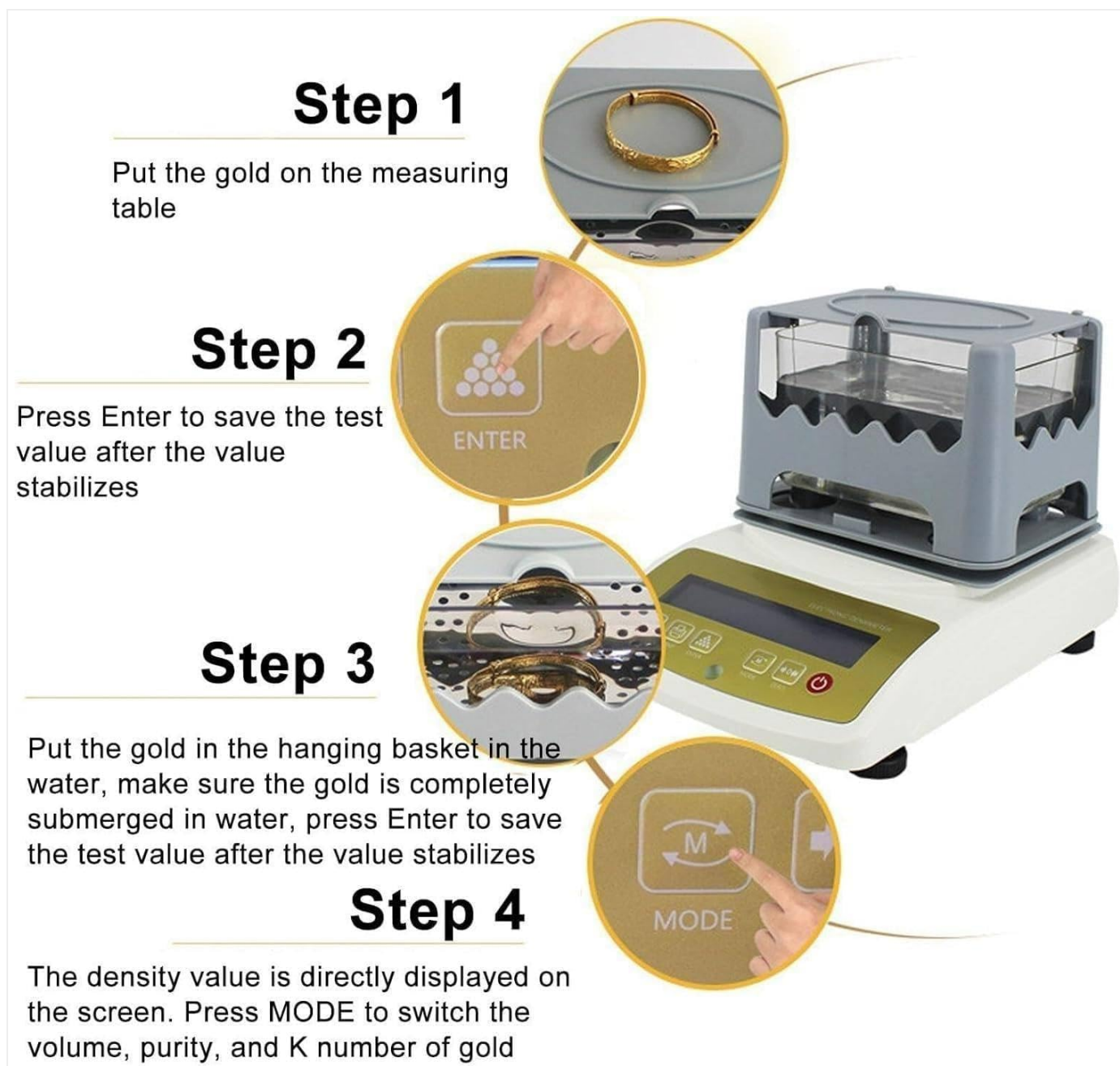


Image: Visual guide illustrating the four-step testing process for gold purity, from placing the item on the measuring table to submerging it in water and reading the results.

1. Step 1: Power On and Zero Calibration

Press the power button to turn on the device. Wait for the display to stabilize at '0.00g'. If it does not, press the **ZERO** button to calibrate.

2. Step 2: Measure Weight in Air

Place the gold sample directly onto the measuring platform (above the water tank). Wait for the weight reading on the digital display to stabilize. Once stable, press the **ENTER** button to save this value (weight in air).

3. Step 3: Measure Weight in Water

Open the lid of the water tank. Carefully place the gold sample into the stainless steel hanging basket, ensuring it

is fully submerged in the water and not touching the sides or bottom of the tank. Wait for the weight reading on the digital display to stabilize. Once stable, press the **ENTER** button to save this value (weight in water).

4. Step 4: View Results

The device will automatically calculate and display the density value. Press the **MODE** button to cycle through and view other parameters such as volume, purity percentage, and karat number (for gold). The screen directly displays the purity of gold.

Two steps to make testing easier and faster



Place the gold on the measuring table and press Enter when the value is stable



Open the lid and place the gold on the stainless steel hanging basket and press Enter when the value is stable



Precious metal purity measurement report
Test date: 2020.01.18
Test time: 08:16
Purity: 95.002%
K number: 22.8K
Density: 18.364g/cm³
Volume: 1.377cm³

The screen directly displays the purity of gold. Press Mode to display the K number, density, and volume.

Press Print to print out the test value. [The printer is an optional accessory]

Image: A simplified two-step illustration of the testing process, demonstrating placing the gold on the measuring table for air weight and then in the hanging basket for water weight, followed by result display and optional printing.

Note: Hollow gold products cannot be measured accurately by this method. Gold-plated products can be easily measured.

5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your MDJ-1200K tester.

- **Cleaning:** After each use, especially if water has spilled, gently wipe the device with a soft, dry cloth. Do not use

abrasive cleaners or solvents.

- **Water Tank:** Empty and clean the water tank regularly. Use distilled water for testing to prevent mineral buildup.
- **Storage:** Store the device in a dry, stable environment, away from direct sunlight, extreme temperatures, and dust.
- **Battery Care:** Recharge the built-in battery when the low battery indicator appears. For long-term storage, ensure the battery is partially charged (around 50%) to maintain its health.

6. TROUBLESHOOTING

If you encounter issues with your MDJ-1200K tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate or inconsistent readings	Unstable surface; air bubbles in water; sample touching tank; improper calibration; dirty water.	Ensure device is on a level, stable surface. Remove air bubbles from water. Ensure sample is freely suspended. Perform ZERO calibration. Use clean distilled water.
Device does not power on	Low battery; power adapter not connected; faulty power button.	Charge the battery. Ensure power adapter is securely connected. If problem persists, contact support.
Display shows 'Error' or unusual characters	Internal malfunction; sensor issue.	Turn off the device, wait a few seconds, then restart. If the error persists, contact customer support.
Automatic alarm sounds	Measurement is out of the specified range or tolerance limits.	This indicates the tested material's properties are outside the set parameters. Review the sample and testing procedure.

7. SPECIFICATIONS

Detailed specifications for the MDJ-1200K model:

- **Model:** MDJ-1200K
- **Weighing Range:** 1200g
- **Weighing Precision:** 0.01g
- **Density Resolution:** 0.001g/cm³
- **Recommended Sample Test Weight:** 10g or more
- **Package Dimensions:** 16.93 x 14.57 x 7.87 inches
- **Item Weight:** 8.8 pounds
- **Manufacturer:** Generic
- **Date First Available:** April 1, 2025

7.1 Measurable Items and Display Parameters

Measurable items



Gold

Weight/density/purity/karat number



Platinum

Weight/density/volume/PT value



Silver

Weight/density/volume/purity



Palladium

Weight/density/volume/purity



Gemstone/Jade/Emerald/Brick Stone

Weight/Density (Specific Gravity)

and the corresponding display parameters (density, volume, purity, karat number, PT value, specific gravity).

Metal Type	Display Parameters
Gold	Density, Volume, Purity, Karat Number
Perkin/Platinum	Density, Volume, PT Value
K Gold	Density, Volume, Purity (Gold + Copper, Gold + Silver, Gold + Silver + Copper, Karat Number)
Silver/Palladium/Other Precious Metals	Density, Volume, Purity
Gemstone/Jade/Emerald/Brick Stone	Weight, Density (Specific Gravity)



Image: Examples of items that can be tested by the device, such as gold bars, gold and silver rings, silver ingots, and emeralds,

8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.

- **Manufacturer:** Generic
- **Seller:** HUIHUIDE
- For assistance, refer to the contact information provided at the point of purchase.

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